APPENDIX A
PENDING CLAIMS

1. (Reiterated) A vaccine against *Streptococcus pyogenes* infection, comprising:

a physiologically acceptable non-toxic vehicle containing a conserved cysteine protease.

2. (Reiterated) The vaccine of claim 1, wherein said cysteine protease is a streptococcal pyrogenic exotoxin B or fragments or derivatives thereof.

3. (Reiterated) The vaccine of claim 1, wherein said cysteine protease is a synthetic peptide.

4. (Reiterated) The vaccine of claim 1, wherein said streptococcal infection is selected from the group consisting of pharyngitis, tonsillitis, skin infections, acute rheumatic fever, scarlet fever, post-streptococcal glomerulonephritis and toxic-shock-like syndrome.

5. (Reiterated) The vaccine of claim 1, further comprising a streptococcal M protein antigen.

6. (Amended) A method of immunizing [humans] mammals against *Streptococcus pyogenes* infection, comprising:

administering the vaccine f claim 1 to [said] a mammal in an amount sufficient to confer immunity to a *Streptococcus pyogenes* infection.

7. (Reiterated) The method of claim 6, wherein said vaccine is given by

7. (Retargeted) The method of claim 6, wherein said vaccine is given by parenteral administration.

8. (Reiterated) The method of claim 7, wherein said parenteral administration is selected from a group consisting of subcutaneous administration and intramuscular administration.

9. (Reiterated) The method of claim 6, wherein said vaccine is administered orally.

10. (Reiterated) The method of claim 6, wherein said *Streptococcus pyogenes* infection is selected from the group consisting of pharyngitis, tonsillitis, skin infections, acute rheumatic fever, scarlet fever, post-streptococcal glomerulonephritis, sepsis and toxic-shock-like syndrome.

11. (Reiterated) The method of claim 6, wherein said vaccine is administered in multiple doses.

12. (Amended) A method of immunizing humans against *Streptococcus pyogenes* infection, comprising:

administering the vaccine of claim 5 to [said] a human in an amount sufficient to confer immunity to a *Streptococcus pyogenes* infection.

13. (Reiterated) The method of claim 12, wherein said vaccine is given by parenteral administration.

14. (Reiterated) The method of claim 13, wherein said parenteral administration is selected from the group consisting of subcutaneous administration and intramuscular administration.

15. (Reiterated) The method of claim 12, wherein said vaccine is administered orally.

16. (Reiterated) The method of claim 12, wherein said infection is selected from the group consisting of pharyngitis, tonsillitis, skin infections, acute rheumatic fever, scarlet fever, post-streptococcal glomerulonephritis, sepsis, and toxic-shock-like syndrome.

17. (Reiterated) The method of claim 12, wherein said vaccine is administered in multiple doses.